

Rioja et al
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An aluminum alloy having good damage tolerance and fatigue crack growth resistance comprising consisting essentially of from about 3 to about 5 weight percent Cu, from about ~~0.6~~ 0.5 to about 2 weight percent Mg, and from about 0.01 to about ~~0.9~~ 0.8 weight percent Li, the balance aluminum and incidental elements and impurities, and wherein the Cu and Mg are present in a controlled amount in the alloy such that they are present in a total amount below the solubility limit of the alloy.
2. (Currently Amended) The aluminum alloy of Claim 1, wherein the Li content is from about ~~0.4~~ 0.2 to about 0.8 weight percent.
3. (Original) The aluminum alloy of Claim 1, wherein the Li content is from about 0.2 to about 0.7 weight percent.
4. (Original) The aluminum alloy of Claim 1, wherein the Cu content is from about 3.5 to about 4.5 weight percent.
5. (Original) The aluminum alloy of Claim 1, wherein the Cu content is from about 3.6 to about 4.4 weight percent.
6. (Original) The aluminum alloy of Claim 1, wherein the Mg content is from about 0.6 to about 1.5 weight percent.
7. (Original) The aluminum alloy of Claim 1, wherein the Mg content is from about 0.7 to about 1.0 weight percent.

Rioja et al
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8. (Original) The aluminum alloy of Claim 1, wherein the Cu and Mg content conform to the formula: $Cu \leq 2 - 0.676 (Mg - 6)$.

9. (Original) The aluminum alloy of Claim 1, wherein the Cu and Mg content conform to the formula: $Cu \leq 1.5 - 0.556 (Mg - 6)$.

10. (Original) The aluminum alloy of Claim 1, further comprising from about 0.01 to about 2 weight percent Ag.

11. (Original) The aluminum alloy of Claim 10, wherein the Ag content is from about 0.05 to about 0.5 weight percent.

12. (Original) The aluminum alloy of Claim 10, wherein the Ag content is from about 0.1 to about 0.4 weight percent.

13. (Original) The aluminum alloy of Claim 1, further comprising from about 0.05 to about 2 weight percent Zn.

14. (Original) The aluminum alloy of Claim 13, wherein the Zn content is from about 0.2 to about 1 weight percent.

15. (Original) The aluminum alloy of Claim 13, wherein the Zn content is about 0.5 weight percent.

16. (Withdrawn) The aluminum alloy of Claim 1, further comprising from about 0.1 to about 2 weight percent Si.

17. (Withdrawn) The aluminum alloy of Claim 16, wherein said Si content is from about 0.1 to about 2 weight percent Si.

18. (Original) The aluminum alloy of Claim 1, further comprising at least one dispersoid-forming element selected from chromium, vanadium, titanium, zirconium, manganese, nickel, iron, hafnium, scandium and rare earth elements.

Rioja et al
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19. (Original) The aluminum alloy of Claim 18, wherein the at least one dispersoid-forming element is present in a total amount up to about 1.0 weight percent of the alloy.

20. (Original) The aluminum alloy of Claim 1, further comprising from about 0.2 to about 0.7 weight percent Mn.

21. (Original) The aluminum alloy of Claim 1, wherein the aluminum alloy is in the form of a sheet.

22. (Currently Amended) The aluminum alloy of Claim 1, wherein the aluminum alloy is in the ~~faint~~ form of a plate.

23. (Currently Amended) The aluminum alloy of Claim 1, wherein the aluminum alloy is in the ~~faun~~ form of an extrusion.

24. (Original) The aluminum alloy of Claim 1, wherein the aluminum alloy is in the form of a forging.

25. (New) An aluminum-copper-magnesium alloy product having an ancillary addition of lithium, said alloy product consisting essentially of:

3.0 to 5.0 wt.% Cu;

0.7 to 2 wt.% Mg,

0.01 to 0.8 wt.% Li,

a maximum of about 2 wt.% Si,

at least one dispersoid-forming element selected from the group consisting of chromium, vanadium, titanium, zirconium, manganese, nickel, iron, hafnium, scandium and rare earth elements,

Rioja et al
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wherein said alloy, exhibits an improved fatigue crack growth resistance such that when aged to a T3 condition and tested per ASTM E647-95a in humid air (90% relative humidity at room temperature), with ΔK equal to 10 ksi $\sqrt{\text{in}}$, said alloy exhibits an increase of at least about 27%.

26. (New) An alloy product for use in aerospace damage tolerant aircraft parts having improved fatigue crack growth resistance, said alloy product consisting essentially of:

3.0 to 5.0 wt.% Cu;

0.7 to 2 wt.% Mg,

up to 2.0 wt.% Si, and

0.01 to 0.8 wt.% Li,

wherein said damage tolerant aircraft part is a fuselage panel or frame component, wing skin, rib, spar landing gear component, wheel, horizontal stabilizer, vertical stabilizer, pressure bulkhead, door frame, window frame, or wheel component.